

Fig. 1(a)

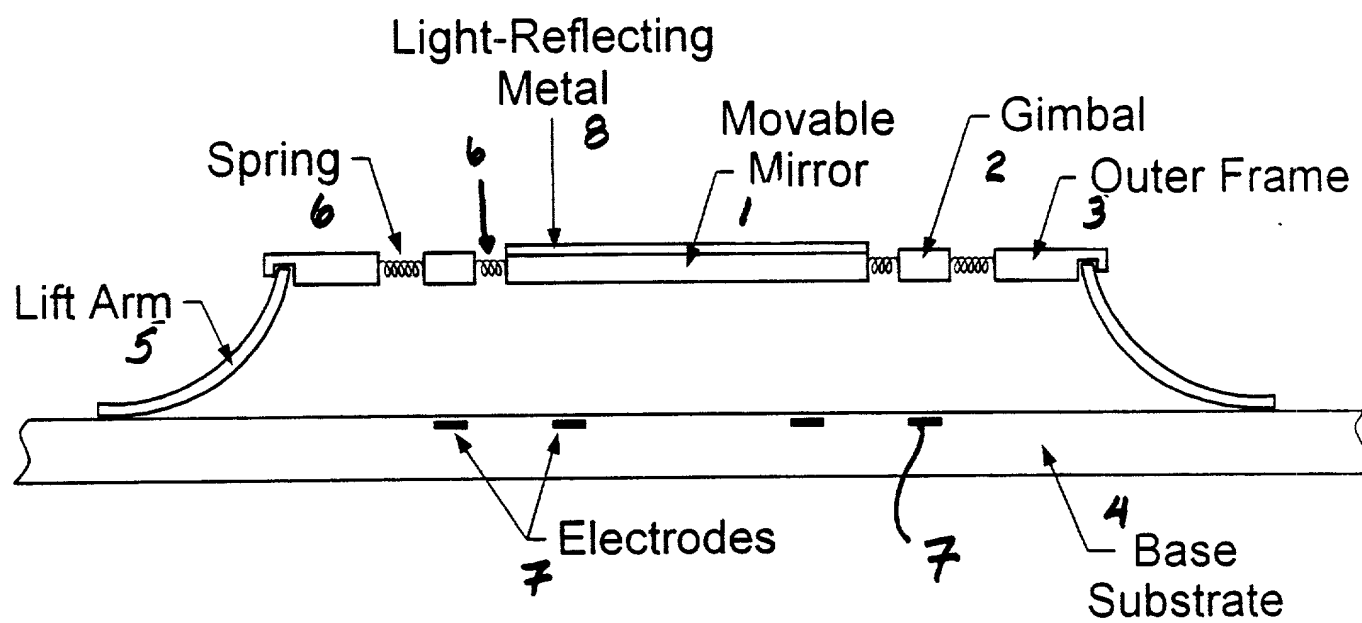


FIG. 1B

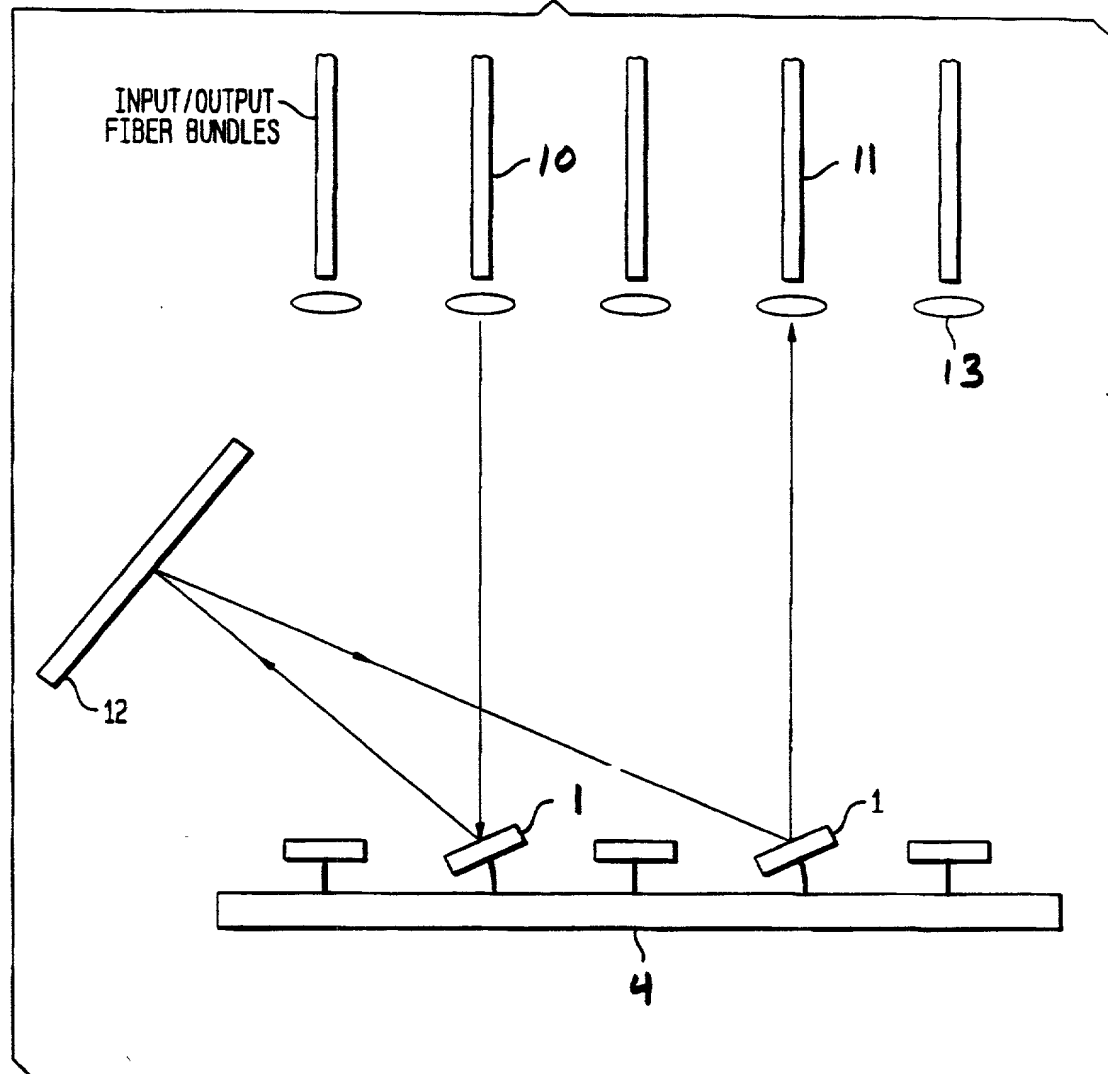


Fig. 2

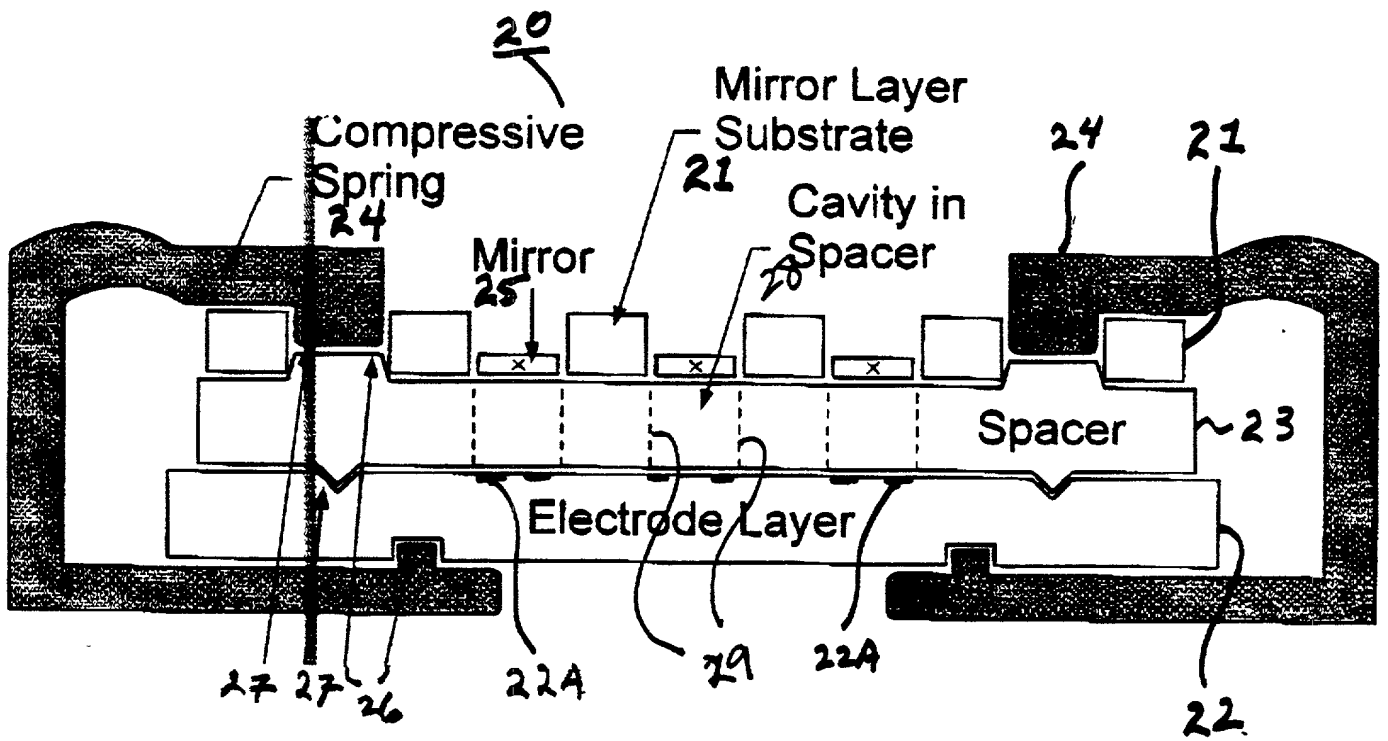


Fig. 3(a)

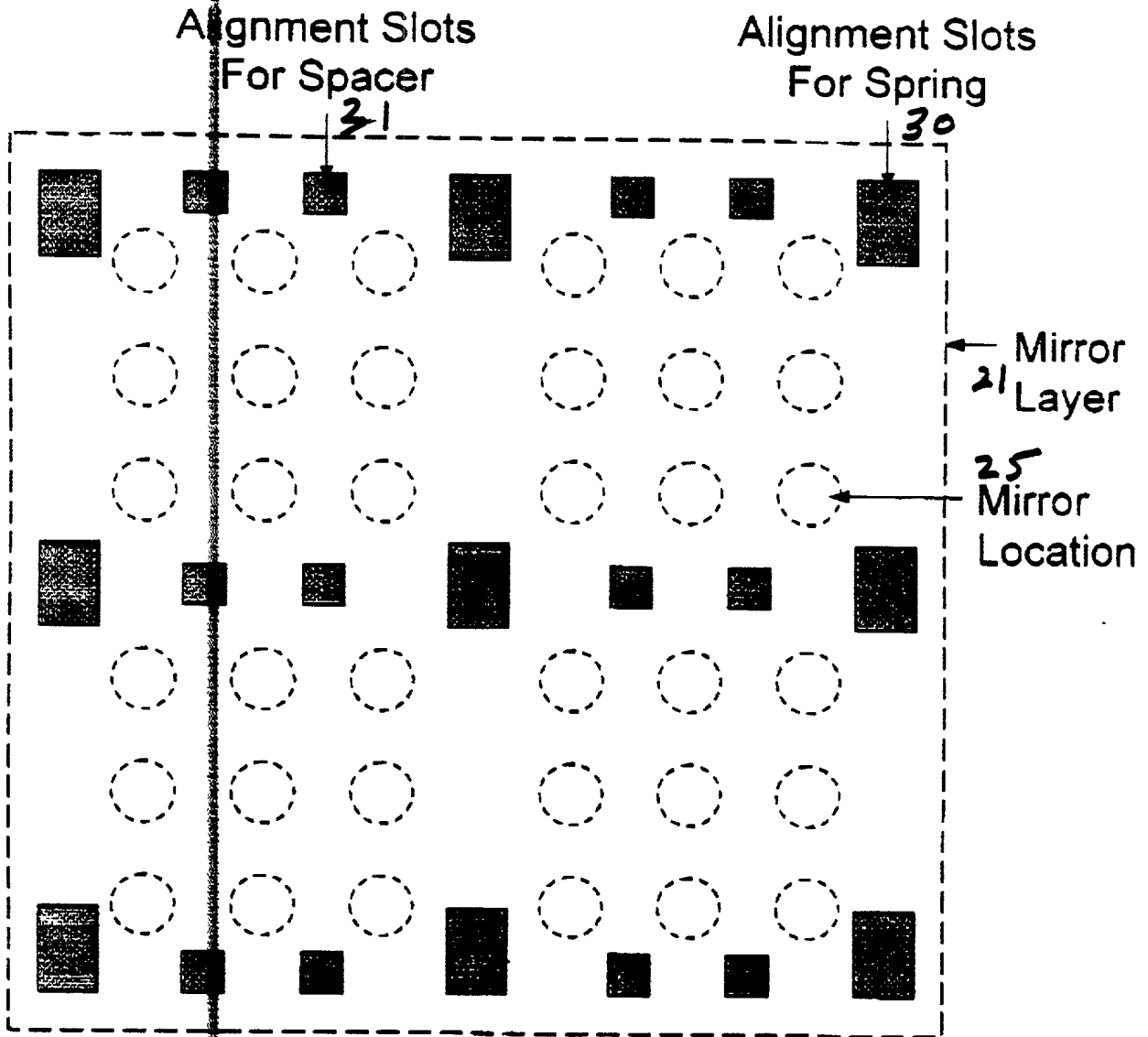


Fig. 3(b)

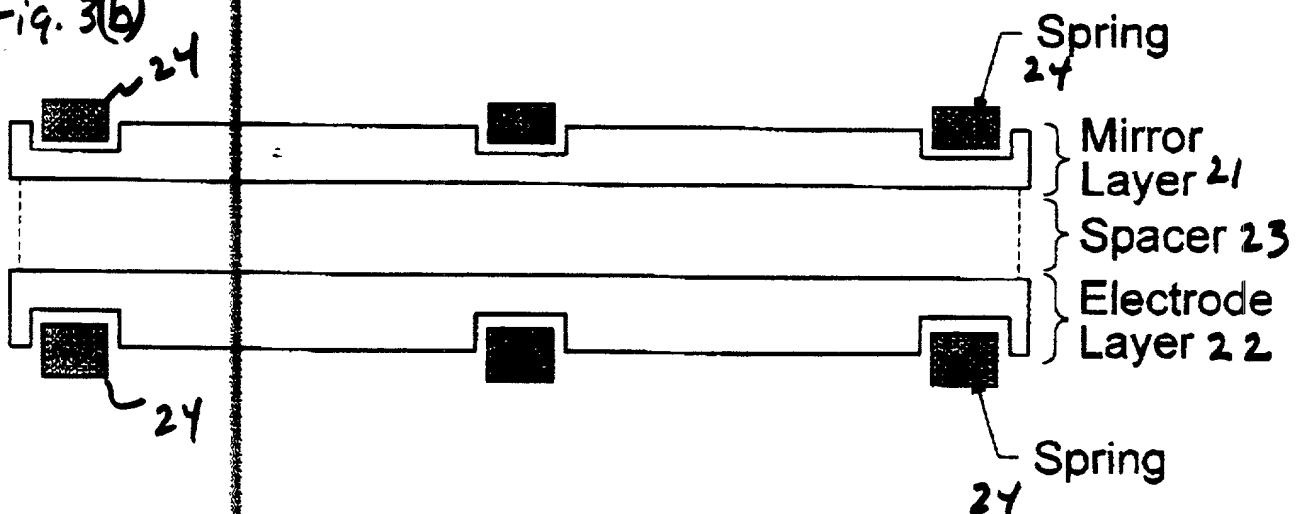


Fig. 4(a)

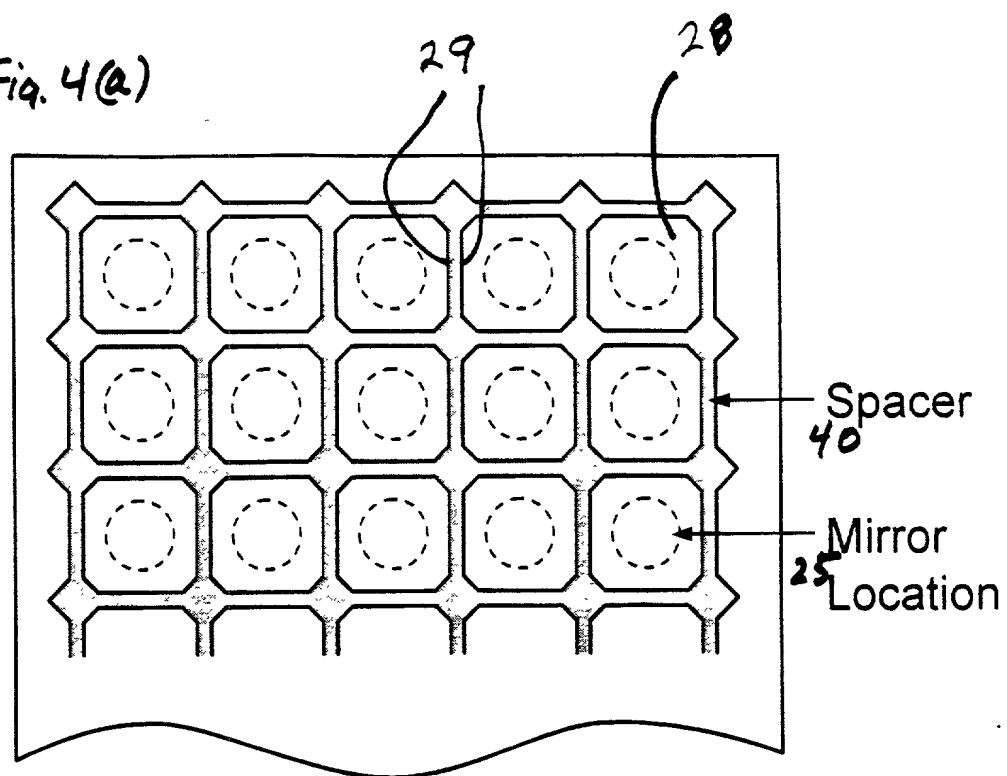


Fig. 4(b)

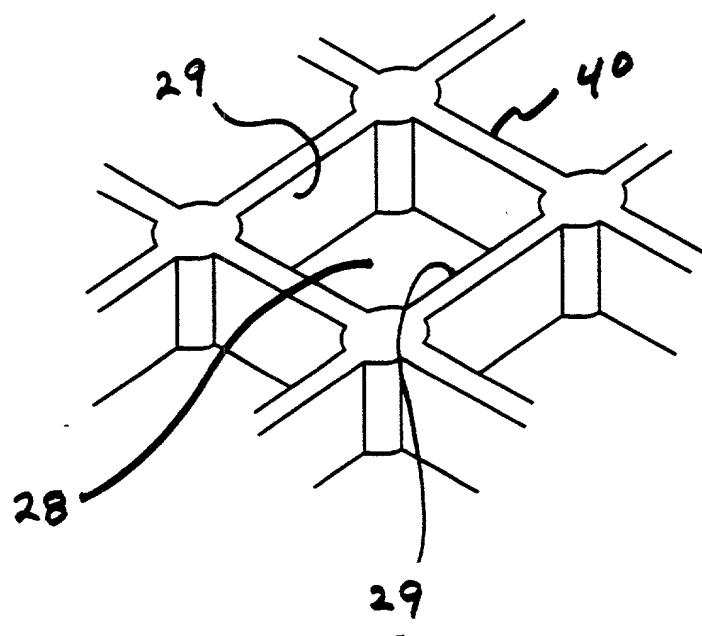


Fig. 5

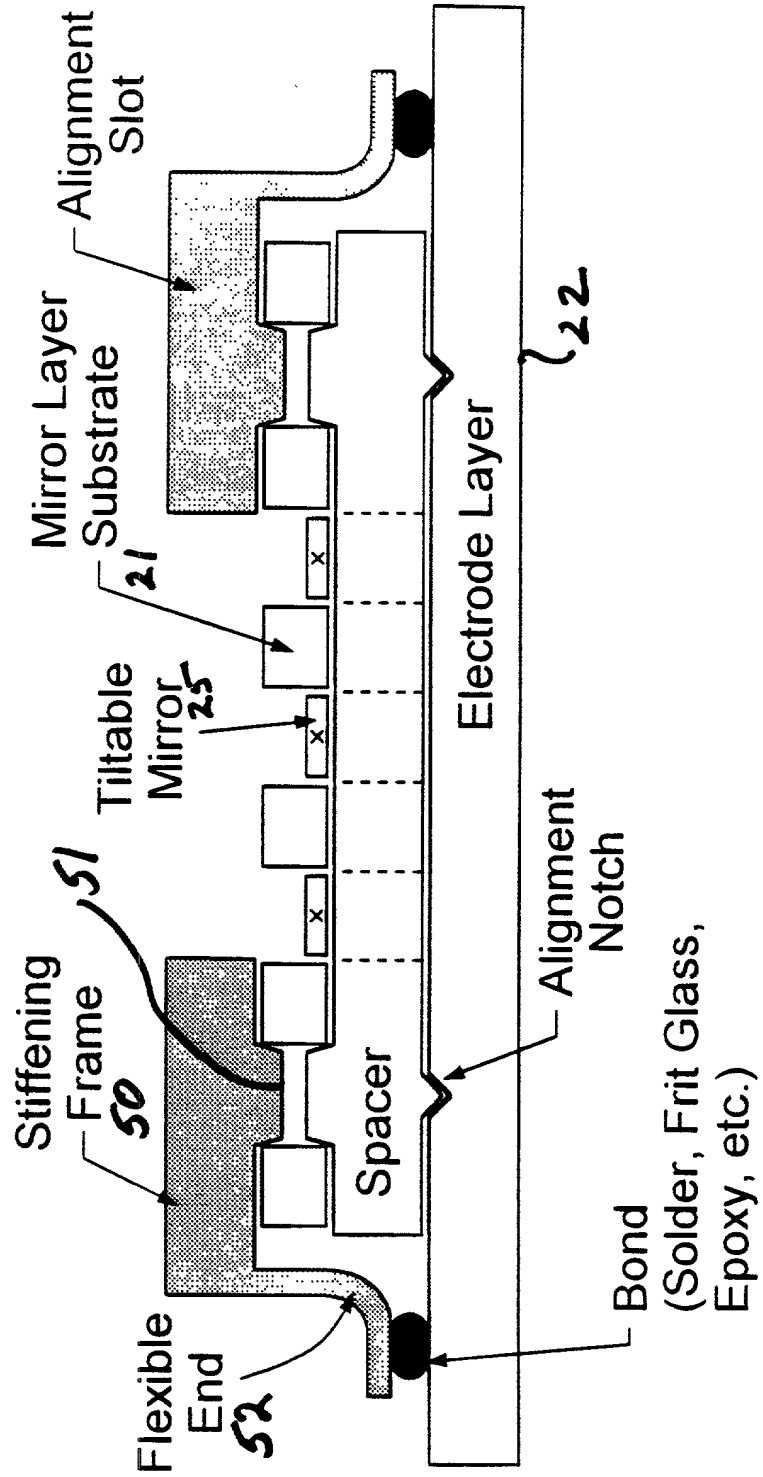


Fig. 6

Metal Frame Above  
Mirror Layer

50

Mirror  
25

52

62

61

52

62

60 Solder Joint or  
Other Types of Bonds

P 13401-933-2000

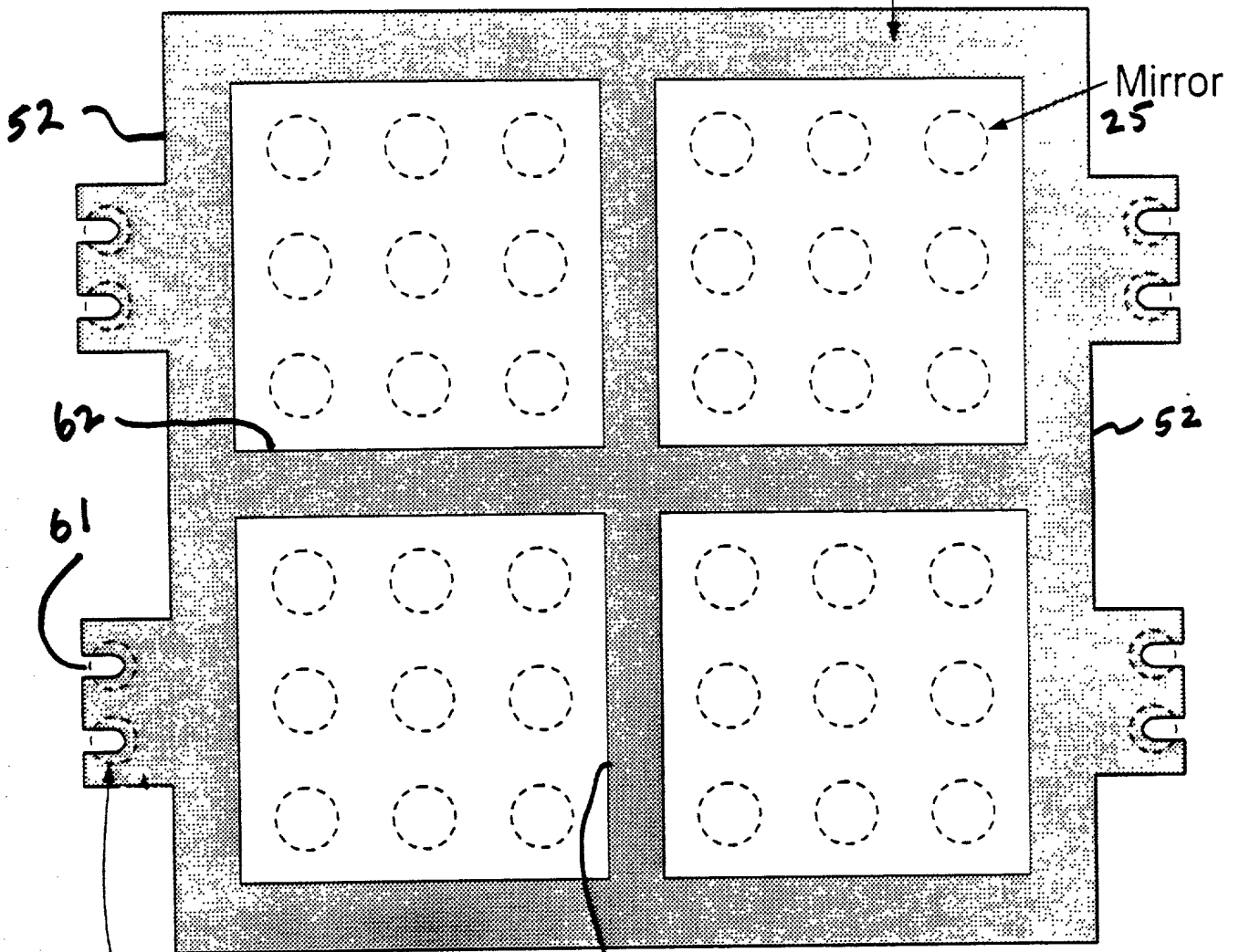


Fig. 7

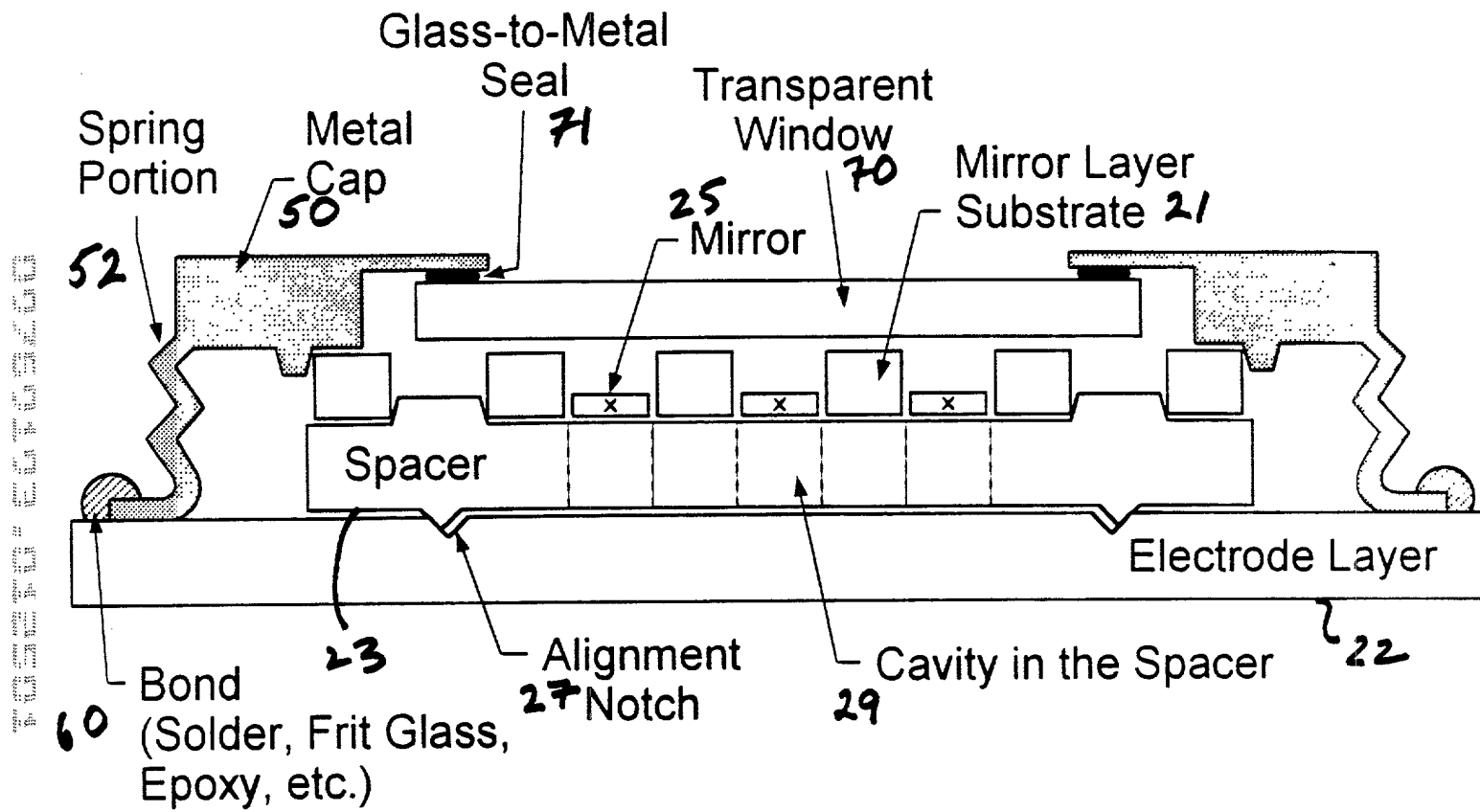




Fig. 8

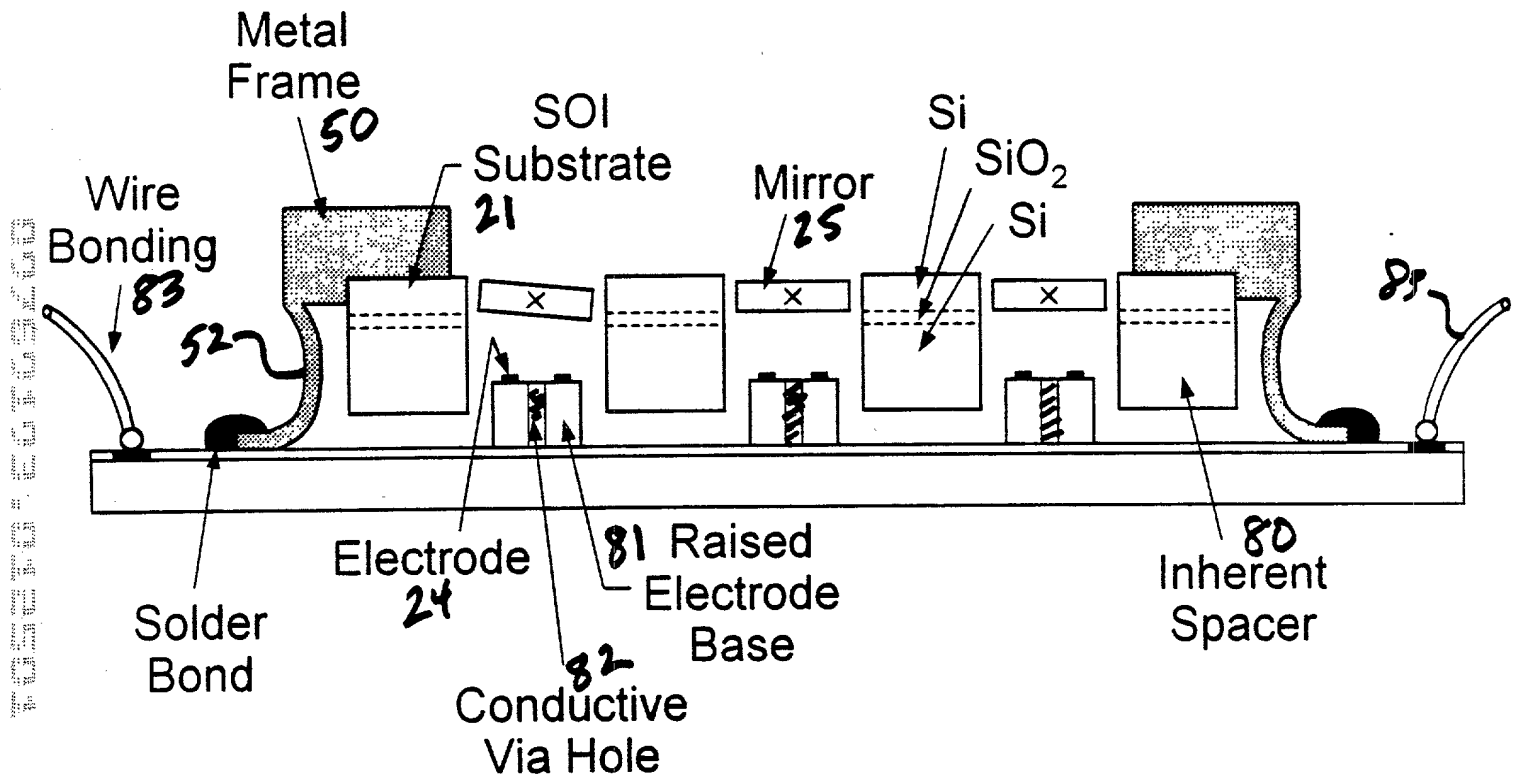


FIG. 9

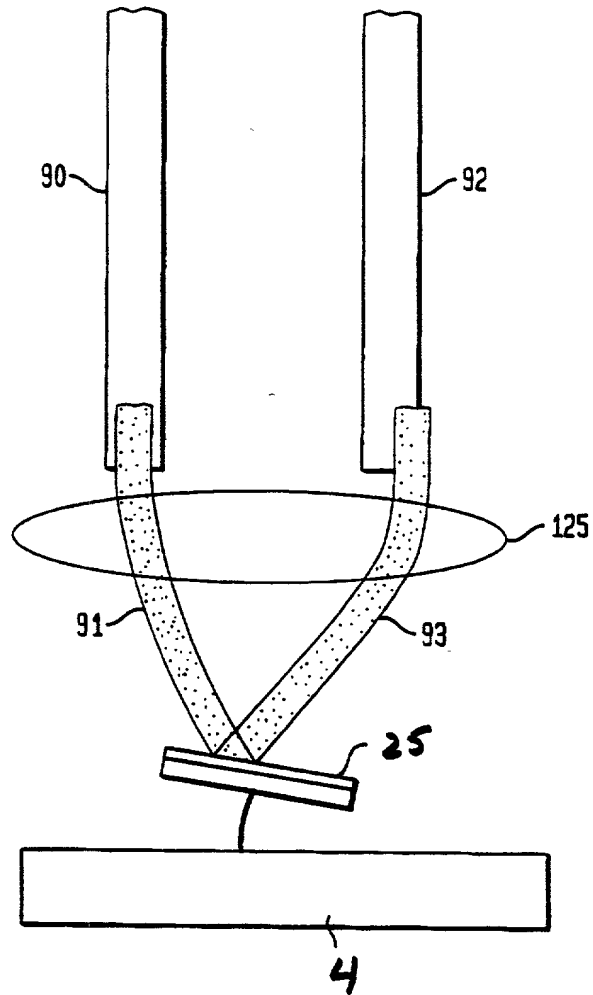
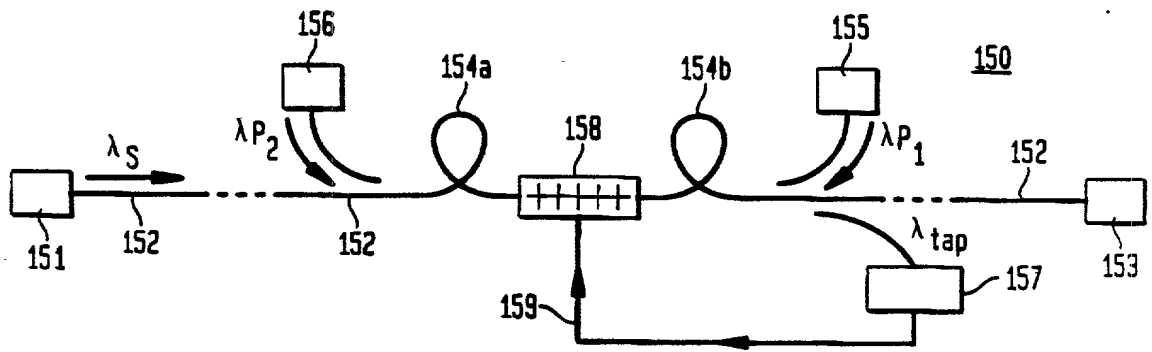


FIG. 10



UNITED STATES PATENT AND TRADEMARK OFFICE  
DOCUMENT CLASSIFICATION BARCODE SHEET



# Oath/Declaration, Small Entity, and Power of Attorney

8

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

## Declaration and Power of Attorney

As below named inventors, we hereby declare that:

Our residences, post office addresses and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **RESILIENTLY PACKAGED MEMs DEVICE AND METHOD FOR MAKING SAME** the specification which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

We acknowledge the duty to disclose all information known to us which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

We hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, We acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

We hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Thomas J. Bean	(Reg. No. 44528)
Lester H. Birnbaum	(Reg. No. 25830)
Richard J. Botos	(Reg. No. 32016)
Jeffery J. Brosemer	(Reg. No. 36096)
Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Guy Eriksen	(Reg. No. 41736)
Martin I. Finston	(Reg. No. 31613)
William S. Francos	(Reg. No. 38456)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Anthony Grillo	(Reg. No. 36535)
Stephen M. Gurey	(Reg. No. 27336)
John M. Harman	(Reg. No. 38173)
Matthew J. Hodulik	(Reg. No. 36164)
Michael B. Johannesen	(Reg. No. 35557)
Mark A. Kurisko	(Reg. No. 38944)
Irena Lager	(Reg. No. 39260)
John B. MacIntyre	(Reg. No. 41170)
Christopher N. Malvone	(Reg. No. 34866)
Scott W. McLellan	(Reg. No. 30776)
Martin G. Meder	(Reg. No. 34674)
John C. Moran	(Reg. No. 30782)
Michael A. Morra	(Reg. No. 28975)
Gregory J. Murgia	(Reg. No. 41209)
Claude R. Narcisse	(Reg. No. 38979)
Joseph J. Opalach	(Reg. No. 36229)
Neil R. Ormos	(Reg. No. 35309)
Eugen E. Pacher	(Reg. No. 29964)
Jack R. Penrod	(Reg. No. 31864)
Gregory C. Ranieri	(Reg. No. 29695)
Scott J. Rittman	(Reg. No. 39010)
Ferdinand M. Romano	(Reg. No. 32752)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ronald D. Slusky	(Reg. No. 26585)
David L. Smith	(Reg. No. 30592)
Ozer M. N. Teitelbaum	(Reg. No. 36698)
John P. Veschi	(Reg. No. 39058)

David Volejnicek	(Reg. No. 29355)
Charles L. Warren	(Reg. No. 27407)
Jeffrey M. Weinick	(Reg. No. 36304)
Eli Weiss	(Reg. No. 17765)

We hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of 1<sup>st</sup> joint inventor: Sungho Jin

Inventor's  
signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Millington, County of Morris and State of New Jersey

Citizenship: USA

Post Office Address: 145 Skyline Drive  
Millington, New Jersey 07946

Full name of 2<sup>nd</sup> joint inventor: Hareesh Mavoori

Inventor's  
signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Piscataway, County of Middlesex and State of New Jersey

Citizenship: India

Post Office Address: 245-B Pleasantview Drive  
Piscataway, New Jersey 08854



Full name of 3<sup>rd</sup> joint inventor: Hyongsok Soh

Inventor's  
signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Basking Ridge, County of Somerset and State of New Jersey

Citizenship: Korea

Post Office Address: 73 Monarch Circle  
Basking Ridge, New Jersey 07920

04/00

**ATTACHMENT A**

Attorney Name(s): Glen E. Books, Reg. No. 24,950

Telephone calls should be made to Glen E. Books at:

Phone No.: 973-597-6162

Fax No.: 973-597-6163

All written communications are to be addressed to:

**Glen E. Books, Esq.  
LOWENSTEIN SANDLOR PC  
65 Livingston Avenue  
Roseland, New Jersey 07068**

## ASSIGNMENT AND AGREEMENT

For value received, we, Sungho Jin of Millington in the County Morris and State of New Jersey, Hareesh Mavoori of Piscataway in the County of Middlesex and State of New Jersey and Hyongsok Soh of Basking Ridge in the County of Somerset and State of New Jersey, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **RESILIENTLY PACKAGED MEMS DEVICE AND METHOD FOR MAKING THE SAME** described in an application for Letters Patent of the United States herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

Jin \_\_\_\_\_  
13401-933

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

\_\_\_\_\_  
Sungho Jin

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came Sungho Jin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Hareesh Mavoori

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came Hareesh Mavoori, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Hyongsok Soh

Date: \_\_\_\_\_

United States of America )

State of ) ss.:

County of )

On this \_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came Hyongsok Soh, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

Lucent Technologies Inc.  
600 Mountain Avenue (Room 3C-512)  
P. O. Box 636  
Murray Hill, New Jersey 07974-0636